A PROFILE OF
MANITOBA'S COMMERCIAL FISHERY

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Allocation of Lakes and Licences - Potential Commercial Harvest

There are some 295 lakes, in addition to Manitoba's three major waterbodies - Lake Winnipeg, Winnipegosis, and Manitoba - listed in the commercial harvest schedule. The schedule lists seasons, limits, and conditions applied to commercial fisheries on each of these lakes. The primary fish species under quota restrictions are walleye (pickerel), sauger, whitefish, northern pike, goldeye, and trout.

Although total quota for commercially fished lakes in the province is approximately 13.0 million kgs, significant harvest of non-quota species (e.g. suckers, carp, tullibee) also occurs. Most lake quotas have been set for many years, and were originally based on traditional harvests adjusted by maximum sustainable yield estimates. Most northern lakes have lake quotas; a set number of fishermen are licensed and they all fish until the entire lake quota is harvested for the season. Generally, local fishermen's associations recommend to Manitoba Conservation (MC) fisheries managers the individuals to fill vacant licences. Lakes Winnipeg and Winnipegosis have individual quota entitlements (access rights) that fishermen may buy and sell. Fishermen wishing to buy quota entitlements must meet certain eligibility criteria (residency, fishing experience). The number and size of quotas were originally established based on the number of participants, average harvests, and the total lake quotas at the time of implementation. It should be noted that fishermen still must be licensed with individual quotas specified on the licence to use the access rights that they have purchased.

Fishing seasons are categorized as open water or winter. On Lake Winnipeg, there are actually two specified open water seasons: summer and fall. Opening dates for open water seasons and closing dates for winter fisheries generally are set to avoid typical spawning times. Opening dates for winter and closing dates for open water are set around typical ice freeze-up times to avoid unsafe ice conditions.

Not all lakes on the schedule are fished every year. Weather conditions, ice breakup and freeze-up, water levels, transportation costs, fish prices, subsidies, and market demand can all affect the fishery and/or a fisherman's decision to fish.

In general, most lakes in the province suitable for commercial fishing are listed in the harvest schedule. If a lake is not listed in the schedule, it is usually for one or more of the following reasons:

- The lake is so remote or inaccessible that the cost of transporting the catch to a processor is prohibitive;
- A few lakes are essentially closed to commercial fishing due to excessive mercury contamination caused by flooding of natural mercury sources;
- High *Triaenophorus* infestation will result in a whitefish lake being downgraded from "premium export" to "standard export", the latter having higher infestations. The lower prices offered for the lower grade fish may make it uneconomic to harvest lakes faced with high transportation costs. This problem has also seriously curtailed the use of tullibee as a commercial species;

- The lake has been allocated to an alternate use, such as domestic fishing, non-commercial recreational use, or a commercial sport fishing operation, at the request of the local community; or

- The lake is too small or unproductive to permit a sustainable annual harvest.

With regard to the latter, MC has allowed fishermen to test fish lakes not listed in the commercial harvest schedule for their commercial potential under an experimental commercial fishing licence. In some cases, MC allows intermittent fishing (every second or third year) of lakes which show potential but cannot sustain annual harvest. This is referred to as "pulse fishing".

Commercial Production and Value

Between 1990/91 and 1999/2000, Manitoba's commercial fisheries have produced an average of 11.6 million kgs of fish annually (Table 1). Pickerel comprise the greatest portion of production by weight (24.9%), followed by mullet (or suckers - 20.2%), whitefish (19.3%), sauger (13.0%), and pike (12.8%).

Pickerel are also the most valuable species, averaging $12.0 million or 52.3% of the average landed value of the total catch at $23.0 million (Table 2). Sauger are the second-most valuable species comprising 19.3% of the total landed value while whitefish contribute 11.2% of the landed value. Pike and perch each contribute about 6.0% of the total landed value. Prices are low for suckers, which are considered an "underutilized species", which is why the significant harvest of suckers by weight contributes only 3.3% of the total landed value of Manitoba's commercial fisheries.

Lake Winnipeg is the largest commercial fishery, contributing over 40% of the province's total production and 55% of landed value of the harvest (Table 3). Northern lakes contribute 24% of total production and almost 20% of landed value.

Over 60% of the total harvest occurs during open water (Table 4). Northern lakes are primarily summer fisheries and over 80% of Lake Winnipeg production occurs during open water. However, Lake Manitoba is primarily a winter fishery; summer production is strictly for carp and suckers. Lake Winnipegosis has been commercially fished as both a summer and winter fishery since 1921. Due to the decline of pickerel, the summer fishery on Lake Winnipegosis was closed for three years, from 1986 to 1988. When it reopened, the number of fishermen participating in the summer fishery declined and over 65% of production now occurs in the winter. Almost 60% of production from "Other Lakes" occurs during the winter.

In 1999/2000, 70% of summer production on Lake Winnipeg was pickerel/sauger; 16% of production was whitefish (Table 5). Pickerel/sauger comprised 67% and whitefish increased slightly to 19% of winter production on Lake Winnipeg in 1990/2000. Production on Lake Manitoba in winter 1999/2000 was 53% mullet (sucker), 28% pickerel/sauger, 7% pike, and 6% each for carp and perch. The Lake Winnipegosis summer fishery has become primarily a sucker fishery (69% of production) with some pickerel harvest (17% of production). The winter fishery is a sucker/carp fishery (72%) with some pike (21%) and pickerel (4%).

Northern lakes produced whitefish (29%), pike (24%), mullet (22%), and pickerel (19%) in the summer (Table 5). In winter, they produced primarily pike (38%), mullet (23%), whitefish (22%), and pickerel (13%).

The importance of commercial fishing to local economies cannot be overstated. An average of 3,271 licensed fishermen and hired helpers have been employed annually in commercial fishing in the province (Table 6). Over 30% of these fishermen are employed on Lake Winnipeg, Manitoba's largest fishery.

Average annual income per fisherman (including hired helpers) is $7,032 (Table 7). Average incomes are highest on Lake Winnipeg at $12,464, and lowest on Lake Manitoba and Lake Winnipegosis ($3,354 and $3,757, respectively). Lake Manitoba and Winnipegosis fishermen rely heavily on fishing to supplement their income. However, in Northern Manitoba, with the decline of the fur industry, commercial fishing is often one of the few economic opportunities available for many communities. Northern Manitoba commercial fisheries employ an average of 733 fishermen and hired hands annually for an average individual income of $6,201. It should be noted that in 1992, individual employment incomes averaged only $4,917 for First Nations communities in Northern Manitoba and $8,835 for Northern Affairs communities (Northern Manitoba Economic Development Commission 1992).

Marketing

In 1969, the Freshwater Fish Marketing Act established the Freshwater Fish Marketing Corporation (FFMC) as a federal Crown corporation with exclusive rights to inter-provincial and export trade of freshwater fish products from Manitoba, Saskatchewan, Alberta, the Northwest Territories and Northwestern Ontario. FFMC buys all fish offered by Manitoba fishermen.

Fishermen may sell fish outside the FFMC directly to final consumers. They can also have a representative sell fish on their behalf, but this must be authorized in writing by the Director of Fisheries. Currently, the Manitoba Government is allowing some small retailers to represent fishermen and sell directly to final consumers within Manitoba, in an attempt to increase access to and therefore sales of underutilized commercial fish species. To track these retail sales, MC introduced a new trade record system in the winter of 1994/95 that requires fishermen to record all species sold and to whom.

A Fish Transportation Loadslip Regulation was introduced in 1994 that allowed for the control of transporting fish within the province. The main purpose for the loadslip regulation is to provide an authorizing mechanism for the movement of fish and to assist in the determination of fish being illegally harvested, transported or sold.

The FFMC has found that economies of scale render the current process of shipping to and processing in the main Transcona plant more economically efficient than operating smaller regional processing facilities, which experience higher transportation costs. However, there continues to be pressure from some northern fisheries to opt out of the FFMC. As a result of the report of the Parliamentary Standing Committee on Fisheries and Oceans, in 1995, Island Lake fishermen were allowed to market outside the FFMC for a three-year trial period. The results of this pilot project continue to be under review and their exemption from the FFMC has been extended.

Transportation Logistics

Fishermen deliver their fish to the FFMC's packing stations, local agents, or the FFMC's main plant in Transcona. The FFMC operates (either directly or through agents) approximately 29 packing stations in Manitoba during the summer and 29 stations in winter, depending on production (Figure 1).

The major packing stations in Northern Manitoba are located at Moose Lake, The Pas, Kisseynew Lake, Wabowden, Leaf Rapids, South Indian Lake, Nelson House, and Reindeer Lake. Northern fishermen either boat, truck or fly their fish to the nearest station where it is weighed, packed, and then trucked by commercial carrier to Winnipeg. Pukatawagan fishermen bring their fish back to the community and send the fish by train to The Pas. Thicket Portage fishermen also send their fish by train, either to the Wabowden packing plant when it is operating, or to The Pas. The fish are trucked from The Pas and Wabowden to Winnipeg by commercial carrier.

Island Lake fishermen, who have been allowed to opt out of selling their fish through the FFMC, fly fish directly to Winnipeg for distribution.

Fish from the south end of Playgreen Lake are delivered to Playgreen Point, packed and then boated to Norway House, and then trucked to Winnipeg. Fish from the north end of Playgreen Lake, as well as Stevenson, Kiskittogisu, and Bigstone lakes are now being boated to the Whiskey Jack station which opened in the summer of 1993. From Whiskey Jack, the fish are trucked directly to Winnipeg.

Lake Winnipegosis fish are delivered to Duck Bay, Dawson Bay, or the community of Winnipegosis, to be trucked to Winnipeg.

There are approximately 14 delivery points on Lake Winnipeg alone. On Lake Winnipeg, the FFMC's main fish boat, the *Goldfield*, operates out of Matheson Island during the open water fisheries, collecting fish from Catfish Creek, McBeth Point, George's Island, Negginan, and Berens River. The fish are then trucked from Matheson Island to FFMC's Transcona plant. Fish delivered to the other packing stations on Lake Winnipeg, which are road-accessible, are trucked to the Transcona plant. In winter, Lake Winnipeg fishermen transport their fish to the nearest road-accessible packing station by bombardier or snow machine.

Lake Manitoba and Winnipegosis fishermen deliver their fish to the nearest packing station by boat or truck in summer, and by bombardier or snow machine in winter, where it is then trucked to Winnipeg. Some fishermen on southern lakes truck their fish directly to the Transcona plant.

Fish harvested from southern Manitoba lakes can reach the FFMC's Transcona plant the same day. In Northern Manitoba, transport of fish may take a day from lakeside to the nearest packing plant and then another day from the plant to FFMC Transcona. Conceivably, northern fishermen can get their catch to Transcona the same day if they lift their nets early enough in the day to reach the packing station and catch the commercial carrier to Winnipeg. However, this can only occur when production is high and the plant is loading a truck for Winnipeg daily. When production drops off, a truck may be going to Winnipeg only every three days or so.

Transportation Costs

Certain lakes are eligible for assistance under Manitoba's Northern Fishermen's Freight Assistance (NFFA) Program, which was established in 1976, to assist marginally viable commercial fishing operations through partial subsidization of the cost of transporting selected fish species from lakeside to Winnipeg. Under the NFFA Program, fishermen pay the first 20¢/kg of freight costs to FFMC in Transcona, the Province pays the next 45¢/kg, and fishermen then pay any freight costs in excess of 65¢/kg. Eligible species for freight assistance are whitefish, pike, lake trout, perch, goldeye, and tullibee. Subsidy payments to fishermen are issued by FFMC on behalf of Manitoba on weekly fish cheques. Total NFFA Program expenditures were capped in 1991 at $250,000, however due to significant increases in transportation costs in recent years, program funding was increased to $410,000 in 2001. A subsidy of 7¢/kg on suckers coming from subsidized lakes was also added to the program in 2001.

As an additional precaution, to allow for higher than average production years, fishermen receive an initial subsidy payment of 70% of the estimated full subsidy for which they are eligible. They receive a final payment at the end of the fishing year which may total the expected remaining 30%. However, in years of high production, final payments may be less than expected. In low production years, final payments may result in a higher subsidy rate than promised.

MC has ensured that Island Lake fishermen still have access to the provincial freight subsidy outside of the FFMC's administration of the NFFA to other fishermen.

Transportation methods used by fishermen to deliver their fish to the packing stations are varied, and actual costs are not readily available. Transportation tariffs (estimates of costs per mile of various transport modes), from which Fisheries Branch estimates NFFA subsidy rates, had not been changed since 1984 and did not represent the fishermen's true costs of transporting their fish. Tariffs were therefore updated with introduction of the higher program funding cap in 2001.

The FFMC negotiates with truck, rail, and air transport operators to determine appropriate backoffs (freight charges) to fishermen to transport their fish from delivery points to the main FFMC plant in Transcona. These backoffs are deducted from the FOB Winnipeg price to establish the fish price paid to fishermen.

Conclusion

Manitoba's commercial fishery is an important industry and a major provider of employment in Northern Manitoba and the Interlake. In addition to the direct income to fishermen from the fish they sell (over $23 million), Manitoba also benefits from annual sales by the FFMC of over $50 million in value-added processed fish products.

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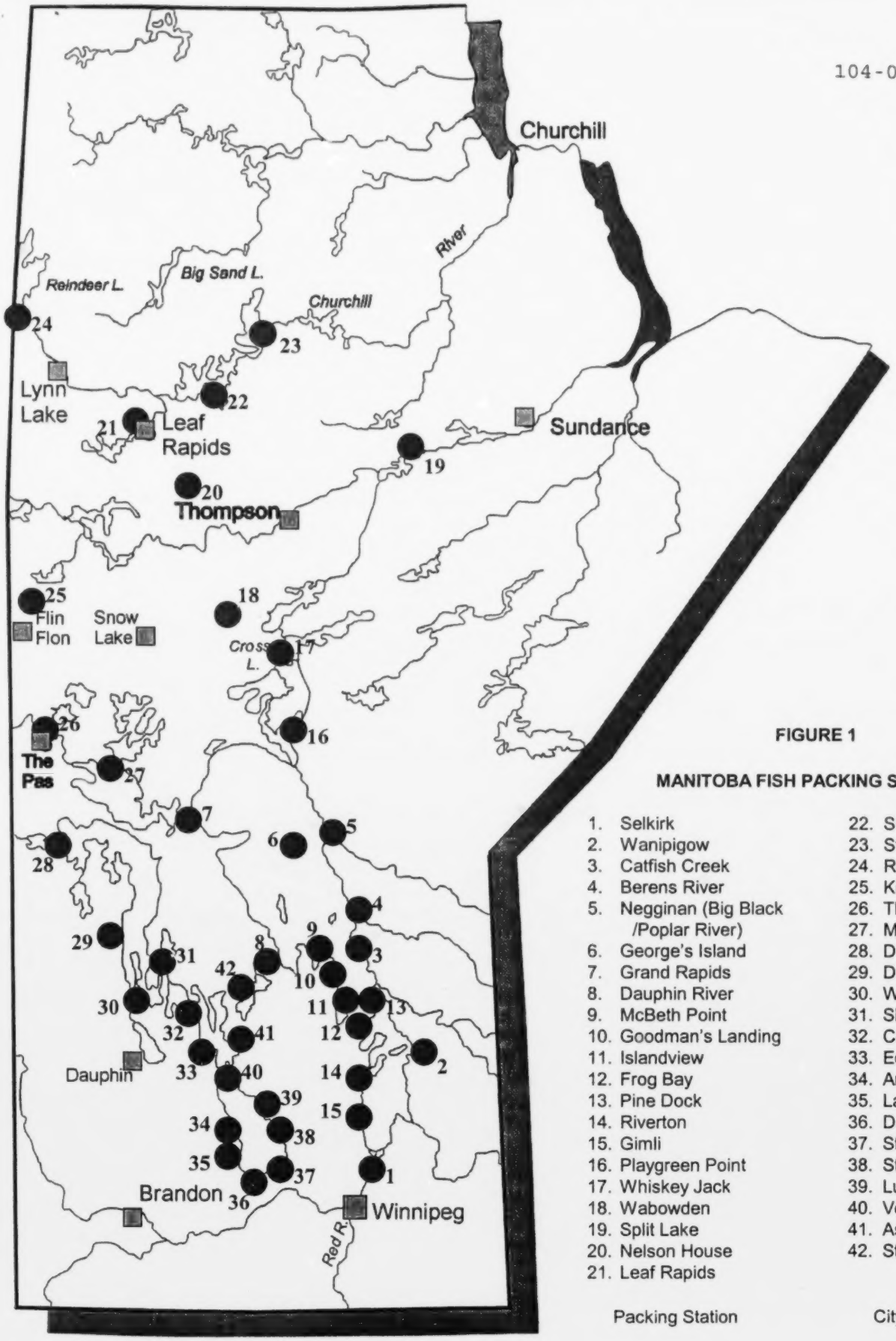

FIGURE 1

MANITOBA FISH PACKING STATIONS

1. Selkirk
2. Wanipigow
3. Catfish Creek
4. Berens River
5. Negginan (Big Black /Poplar River)
6. George's Island
7. Grand Rapids
8. Dauphin River
9. McBeth Point
10. Goodman's Landing
11. Islandview
12. Frog Bay
13. Pine Dock
14. Riverton
15. Gimli
16. Playgreen Point
17. Whiskey Jack
18. Wabowden
19. Split Lake
20. Nelson House
21. Leaf Rapids
22. SIL Settlement
23. Sturgeon Narrows
24. Reindeer Lake
25. Kisseynew Lake
26. The Pas
27. Moose Lake
28. Dawson Bay
29. Duck Bay
30. Winnipegosis
31. Skownan
32. Crane River
33. Eddystone
34. Amaranth
35. Langruth
36. Delta
37. St. Ambroise
38. St. Laurent
39. Lundar
40. Vogar
41. Ashern
42. St. Martin

Packing Station City/Town

TABLE 1. COMMERCIAL FISHING PRODUCTION BY SPECIES

SPECIES	PRODUCTION (KGS) 1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/2000	AVERAGE	% OF TOTAL
BASS	49,750	75,400	73,300	51,800	36,750	24,200	83,150	45,100	25,850	45,450	51,075	0.4%
CARP	692,750	1,015,450	203,200	376,650	335,100	784,400	442,700	569,950	397,050	652,600	546,985	4.7%
CATFISH	0	0	0	0	0	0	350	250	500	50	115	0.0%
CRAPPIE	0	0	0	0	0	0	0	0	0	0	0	0.0%
GOLDEYE	81,800	15,500	6,350	11,400	11,700	10,250	16,200	17,500	16,150	8,500	19,535	0.2%
MARIA	6,450	116,000	124,450	0	2,250	53,650	77,300	Trace	102,450	2,450	48,500	0.4%
MULLET	419,100	3,432,100	584,000	1,213,350	1,067,500	2,912,400	3,626,700	2,716,050	3,289,150	4,206,850	2,346,720	20.2%
PERCH	443,400	575,650	335,600	164,050	382,350	506,350	277,750	229,850	246,400	226,200	338,760	2.9%
PICKEREL	3,167,700	3,600,950	3,196,900	2,507,450	2,329,900	2,451,900	2,108,950	2,239,750	3,219,600	4,156,450	2,897,955	24.9%
PIKE	1,459,950	1,775,900	1,457,200	1,052,100	946,400	1,449,500	1,518,800	1,674,350	1,796,900	1,753,250	1,488,435	12.8%
SAUGER	2,150,250	2,484,500	1,824,650	1,439,750	1,683,800	1,314,900	1,113,250	965,750	1,117,950	984,400	1,507,920	13.0%
STURGEON	4,100	3,650	1,600	200	500	600	0	0	0	0	1,065	0.0%
TROUT	26,200	24,600	26,250	22,100	18,150	57,250	55,150	54,100	44,650	40,550	36,900	0.3%
TULLIBEE	52,750	69,850	194,950	124,150	112,700	84,350	93,100	75,100	101,950	116,200	102,510	0.9%
WHITEFISH	2,132,000	2,436,450	2,035,350	1,941,100	2,886,250	2,875,500	2,409,750	1,924,150	1,844,800	1,904,100	2,238,945	19.3%
ROE*	2,850	0	0	0	0	0			0	0	285	0.0%
TOTAL	10,686,200	15,626,000	10,063,800	8,904,100	9,813,350	12,525,250	11,823,150	10,511,900	12,203,400	14,097,050	11,625,420	100.0%

* NOT INCLUDED IN TABLE TOTALS

TABLE 2. VALUE OF COMMERCIAL FISHERY BY SPECIES

	VALUE ($ 2001)											
SPECIES	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/2000	AVERAGE	% OF TOTAL
BASS	$73,552	$82,375	$72,661	$87,890	$62,007	$42,789	$97,903	$42,036	$37,113	$49,728	$64,805	0.30%
CARP	$221,557	$370,015	$72,239	$133,186	$117,581	$282,194	$157,518	$189,025	$125,917	$207,818	$187,705	0.80%
CATFISH	$0	$0	$0	$0	$0	$0	$387	$271	$534	$52	$124	0.00%
GOLDEYE	$246,525	$65,851	$33,374	$47,823	$40,623	$39,628	$48,675	$52,423	$41,652	$28,086	$64,466	0.30%
MARIA	$2,896	$44,860	$57,091	$0	$1,101	$24,556	$29,117	$0	$46,031	$1,205	$20,686	0.10%
MULLET	$172,201	$1,149,275	$222,088	$446,911	$412,314	$987,706	$1,122,017	$809,174	$981,919	$1,348,042	$765,165	3.30%
PERCH	$1,818,081	$1,925,168	$864,936	$493,794	$1,912,640	$2,031,636	$992,014	$951,349	$1,221,365	$1,176,956	$1,338,794	5.80%
PICKEREL	$8,207,907	$14,775,210	$14,001,502	$9,000,559	$11,206,197	$12,225,264	$8,326,728	$8,900,694	$15,009,405	$18,630,401	$12,028,387	52.30%
PIKE	$1,672,006	$2,363,605	$1,808,086	$801,409	$726,287	$1,147,459	$1,142,625	$1,200,750	$1,496,642	$1,506,395	$1,386,526	6.00%
SAUGER	$4,465,375	$6,615,047	$5,287,445	$3,556,784	$5,402,157	$5,271,922	$3,629,980	$2,779,225	$4,120,504	$3,356,325	$4,448,476	19.30%
STURGEON	$46,718	$30,294	$12,070	$3,408	$3,651	$3,782	$0	$0	$0	$0	$9,992	0.00%
TROUT	$14,286	$20,196	$12,975	$20,680	$8,287	$68,982	$60,499	$51,557	$40,958	$37,623	$33,604	0.10%
TULLIBEE	$33,269	$55,019	$225,588	$91,474	$76,030	$64,635	$62,322	$45,336	$54,895	$72,574	$78,114	0.30%
WHITEFISH	$2,332,559	$2,825,176	$2,048,581	$1,727,191	$3,393,784	$3,651,412	$2,857,585	$1,945,490	$2,369,945	$2,620,734	$2,577,246	11.20%
ROE*	$19,691	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,969	0.00%
TOTAL	$19,306,931	$30,322,091	$24,718,636	$16,411,108	$23,362,658	$25,841,963	$18,527,369	$16,967,329	$25,546,880	$29,035,940	$23,004,091	100.00%

TABLE 3. COMMERCIAL FISHING PRODUCTION AND VALUE BY REGION

	NORTHERN LAKES		LAKE WINNIPEG		LAKE MANITOBA		LAKE WINNIPEGOSIS		OTHER LAKES		TOTAL	
YEAR	WEIGHT (KGS)	VALUE ($2001)	WEIGHT (KGS)	VALUE ($2001)	WEIGHT (KGS)	VALUE ($2001)	WEIGHT (KGS)	VALUE ($2001)	WEIGHT (KGS)	VALUE ($2001)	WEIGHT (KGS)	VALUE ($2001)
1990/91	2,367,950	$3,461,515	5,066,850	$10,319,874	1,457,300	$3,350,318	950,300	$825,804	843,800	$1,349,420	10,686,200	$19,306,931
1991/92	3,181,650	$5,474,952	5,857,600	$14,801,159	3,023,550	$6,023,059	2,287,950	$2,103,689	1,275,250	$1,919,232	15,626,000	$30,322,091
1992/93	2,625,750	$4,945,803	4,644,650	$13,628,599	1,099,950	$3,607,120	879,700	$840,555	813,750	$1,696,559	10,063,800	$24,718,636
1993/94	1,867,550	$2,783,693	4,217,700	$9,346,361	710,350	$1,856,970	1,074,350	$560,475	1,034,150	$1,863,609	8,904,100	$16,411,108
1994/95	2,572,500	$4,505,728	4,655,500	$12,951,593	821,000	$3,184,063	775,350	$505,788	989,000	$2,215,486	9,813,350	$23,362,658
1995/96	3,081,050	$5,682,765	4,836,400	$13,748,849	2,027,500	$3,908,880	1,385,000	$744,858	1,195,300	$1,756,611	12,525,250	$25,841,963
1996/97	3,339,650	$4,741,003	4,312,600	$9,794,775	1,344,450	$2,033,697	1,635,650	$754,163	1,190,800	$1,203,732	11,823,150	$18,527,369
1997/98	2,621,550	$3,858,142	3,991,600	$9,023,934	1,518,000	$2,388,840	1,465,050	$911,910	915,700	$784,504	10,511,900	$16,967,329
1998/99	2,761,800	$4,646,334	4,825,600	$15,079,466	1,734,450	$2,440,166	2,106,550	$2,021,350	775,000	$1,359,564	12,203,400	$25,546,880
1999/00	3,235,650	$5,331,700	5,419,050	$17,798,708	1,943,950	$2,532,964	2,719,850	$2,375,030	778,550	$997,539	14,097,050	$29,035,940
AVERAGE	2,765,510	$4,543,163	4,782,755	$12,649,332	1,568,050	$3,132,608	1,527,975	$1,164,362	981,130	$1,514,626	11,625,420	$23,004,091
% OF TOTAL	23.80%	19.70%	41.10%	55.00%	13.50%	13.60%	13.10%	5.10%	8.40%	6.60%	100.00%	100.00%

TABLE 4. COMMERCIAL FISHING PRODUCTION BY SEASON

PRODUCTION (KGS)

	NORTHERN LAKES		LAKE WINNIPEG		LAKE MANITOBA		LAKE WINNIPEGOSIS		OTHER LAKES		TOTAL	
YEAR	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER
1990/91	1,939,950	428,000	3,832,150	1,234,700	353,600	1,103,700	266,950	683,350	311,500	532,300	6,704,150	3,982,050
1991/92	2,610,600	571,050	4,263,650	1,593,950	506,450	2,517,100	974,850	1,313,100	354,650	920,600	8,710,200	6,915,800
1992/93	2,221,450	404,300	3,789,150	855,500	54,150	1,045,800	314,400	565,300	338,500	475,250	6,717,650	3,346,150
1993/94	1,498,650	368,900	3,347,700	870,000	9,200	701,150	368,500	705,850	605,700	428,450	5,829,750	3,074,350
1994/95	2,057,350	515,150	3,689,250	966,250	146,400	674,600	191,350	584,000	666,500	322,500	6,750,850	3,062,500
1995/96	2,552,900	528,150	3,817,900	1,018,500	351,200	1,676,300	391,000	994,000	637,450	557,850	7,750,450	4,774,800
1996/97	2,882,250	457,400	3,688,800	623,800	386,250	958,200	597,400	1,038,250	607,300	583,500	8,162,000	3,661,150
1997/98	2,159,350	462,200	3,636,300	355,300	219,700	1,298,300	347,750	1,117,300	335,950	579,750	6,699,050	3,812,850
1998/99	2,338,800	423,000	4,204,000	621,600	334,200	1,400,250	690,900	1,415,650	44,650	730,350	7,612,550	4,590,850
1999/00	2,860,850	374,800	4,736,600	682,450	632,100	1,311,850	979,300	1,740,550	114,200	664,350	9,323,050	4,774,000
AVERAGE	2,312,215	453,295	3,900,550	882,205	299,325	1,268,725	512,240	1,015,735	401,640	579,490	7,425,970	4,199,450
% OF REGIONAL PRODUCTION	83.6%	16.4%	81.6%	18.4%	19.1%	80.9%	33.5%	66.5%	40.9%	59.1%	63.9%	36.1%
% OF SEASONAL PRODUCTION	31.1%	10.8%	52.5%	21.0%	4.0%	30.2%	6.9%	24.2%	5.4%	13.8%	100.0%	100.0%

TABLE 5. COMMERCIAL FISHING PRODUCTION (ROUND WEIGHTS KG) BY AREA AND TOTAL VALUE BY SPECIES, 1999-2000

	PRODUCTION (KGS)															
	NORTHERN LAKES		LAKE WINNIPEG		LAKE MANITOBA		LAKE WINNIPEGOSIS		OTHER LAKES*		TOTAL PRODUCTION			TOTAL VALUE***		
SPECIES	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	TOTAL	SUMMER	WINTER	TOTAL
BASS	Trace	0	41,600	3,850	0	Trace	0	0	0	0	41,600	3,850	45,450	$43,150	$4,300	$47,45
CARP	50	0	64,200	12,450	369,550	84,050	29,500	54,750	19,150	18,900	482,450	170,150	652,600	$147,300	$51,000	$198,30
CATFISH	0	0	50	0	0	0	0	0	0	0	50	0	50	$50	$0	$5
GOLDEYE	3,950	200	1,150	2,850	0	0	50	100	0	200	5,150	3,350	8,500	$16,300	$10,500	$26,80
MARIA	Trace	0	Trace	2,450	0	0	0	0	0	0	Trace	2,450	2,450	Trace	$1,150	$1,15
MULLET	626,700	84,350	264,550	33,550	262,550	689,250	735,100	1,202,350	36,750	271,700	1,925,650	2,281,200	4,206,850	$534,600	$751,700	$1,286,30
PERCH	1,200	200	75,700	21,650	0	83,650	50	32,700	0	11,050	76,950	149,250	226,200	$373,650	$749,400	$1,123,05
PICKEREL	557,150	48,600	2,654,150	220,700	0	307,500	164,250	62,800	1,250	140,050	3,376,800	779,650	4,156,450	$14,658,600	$3,118,500	$17,777,10
PIKE	695,200	141,000	214,200	18,800	0	86,900	37,000	361,000	9,950	189,200	956,350	796,900	1,753,250	$771,100	$666,300	$1,437,40
SAUGER	5,850	900	683,850	236,200	0	57,500	Trace	50	Trace	50	689,700	294,700	984,400	$2,245,900	$956,700	$3,202,60
TROUT	40,300	250	0	0	0	0	0	0	0	0	40,300	250	40,550	$35,750	$150	$35,90
TULLIBEE	96,600	17,450	150	50	0	0	0	150	0	1,800	96,750	19,450	116,200	$57,150	$12,100	$69,25
WHITEFISH	833,850	81,850	737,000	129,900	0	3,000	13,350	26,650	47,100	31,400	1,631,300	272,800	1,904,100	$2,021,900	$478,800	$2,500,70
TOTAL	2,860,850	374,800	4,736,600	682,450	632,100	1,311,850	979,300	1,740,550	114,200	664,350	9,323,050	4,774,000	14,097,050	$20,905,450	$6,800,600	$27,706,05

* INCLUDES BUFFALO,CHITEK, CROSS BAY, DAUPHIN, INLAND, MIRE-PROULX, PELICAN, RED DEER, REEDY, SISIB-PICKEREL, LAKE ST. MARTIN, STRONG, SWAN, WATERHEN AND WILLIAM.

** SMALL AMOUNT

TABLE 6. COMMERCIAL FISHING EMPLOYMENT

YEAR	NORTHERN LAKES LICENSED FISHERMEN	NORTHERN LAKES HIRED HELPERS	NORTHERN LAKES TOTAL	LAKE WINNIPEG LICENSED FISHERMEN	LAKE WINNIPEG HIRED HELPERS	LAKE WINNIPEG TOTAL	LAKE MANITOBA LICENSED FISHERMEN	LAKE MANITOBA HIRED HELPERS	LAKE MANITOBA TOTAL
1990/91	561	184	745	897	172	1,069	610	427	1,037
1991/92	577	196	773	903	183	1,086	573	413	986
1992/93	543	183	726	879	178	1,057	568	409	977
1993/94	449	194	643	850	171	1,021	546	392	938
1994/95	445	234	679	820	159	979	530	383	913
1995/96	511	269	780	878	170	1,048	537	388	925
1996/97	577	235	812	858	166	1,024	552	372	924
1997/98	578	245	823	791	153	944	509	367	876
1998/99	475	157	632	786	152	938	520	368	888
1999/00	527	187	714	822	161	983	506	370	876
AVERAGE	524	208	733	848	167	1,015	545	389	934

YEAR	LAKE WINNIPEGOSIS LICENSED FISHERMEN	LAKE WINNIPEGOSIS HIRED HELPERS	LAKE WINNIPEGOSIS TOTAL	OTHER LAKES LICENSED FISHERMEN	OTHER LAKES HIRED HELPERS	OTHER LAKES TOTAL	TOTAL LICENSED FISHERMEN	TOTAL HIRED HELPERS	TOTAL TOTAL
1990/91	157	131	288	332	116	448	2,461	996	3,457
1991/92	163	202	365	284	91	375	2,439	1,051	3,490
1992/93	181	154	335	297	76	373	2,380	974	3,354
1993/94	167	134	301	282	81	363	2,221	952	3,173
1994/95	170	117	287	286	76	362	2,176	949	3,125
1995/96	167	115	282	287	120	407	2,303	1,042	3,345
1996/97	172	121	293	285	132	417	2,318	1,007	3,325
1997/98	169	123	292	287	110	397	2,257	980	3,237
1998/99	172	135	307	191	116	307	2,079	911	2,990
1999/00	177	172	349	198	185	383	2,153	1,063	3,216
AVERAGE	170	140	310	273	110	383	2,279	993	3,271

*NOTE: FISHERMEN FISHING MORE THAN ONE ARE OR WHO FISH BOTH AS HIRED MEN AND LICENCE HOLDERS ARE COUNTED ONLY ONCE IN "TOTAL" COLUMN. WHERE HIRED MAN AND LICENCE HOLDER DUPLICATION OCCURS, THE INDIVIDUAL IS COUNTED AS A LICENCE HOLDER. THEREFORE TABLE DOES NOT ADD HORIZONTALLY.

TABLE 7. AVERAGE INCOME PER FISHERMAN BY REGION

	NORTHERN LAKES		LAKE WINNIPEG		LAKE MANITOBA		LAKE WINNIPEGOSIS		OTHER LAKES		TOTAL	
YEAR	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN ($2001)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN ($2001)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN ($2001)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN ($2001)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN ($2001)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN ($2001)
1990/91	745	$4,646	1,069	$9,654	1,037	$3,231	288	$2,867	448	$3,012	3,457	$5,585
1991/92	773	$7,083	1,086	$13,629	986	$6,109	365	$5,764	375	$5,118	3,490	$8,688
1992/93	726	$6,812	1,057	$12,894	977	$3,692	335	$2,509	373	$4,548	3,354	$7,370
1993/94	643	$4,329	1,021	$9,154	938	$1,980	301	$1,862	363	$5,134	3,173	$5,172
1994/95	679	$6,636	979	$13,229	913	$3,487	287	$1,762	362	$6,120	3,125	$7,476
1995/96	780	$7,286	1,048	$13,119	925	$4,226	282	$2,641	407	$4,316	3,345	$7,726
1996/97	812	$5,839	1,024	$9,565	924	$2,201	293	$2,574	417	$2,887	3,325	$5,572
1997/98	823	$4,688	944	$9,559	876	$2,727	292	$3,123	397	$1,976	3,237	$5,242
1998/99	632	$7,352	938	$16,076	888	$2,748	307	$6,584	307	$4,429	2,990	$8,544
1999/00	714	$7,467	983	$18,107	876	$2,892	349	$6,805	383	$2,605	3,216	$9,029
AVERAGE	733	$6,201	1,015	$12,464	934	$3,354	310	$3,757	383	$3,953	3,271	$7,032

*NOTE: NO. OF FISHERMEN INCLUDES LICENSED FISHERMEN PLUS HIRED HELP